

Addendum/Lessons Learned to the ROB2 Installation Instructions

Version date 08/15/03

IMPORTANT

This addendum goes with the installation instructions you received with the installation kit shipped to you. The kit included 3 CDs, log output, release notes, and cover memo with the OB2 installation instructions. If page numbers are referenced, in the addendum they correspond to the installation document you received with the installation kit.

Important General Information:

1. The new rap version of AVNFPS was released on August 4, 2003. Sites that use AVNFPS should install this version before they install OB2, as the setup GUI in the current version of AVNFPS is not supported in OB2. (8/5/03)
2. For OB2, it was planned that the formats of the HWO and SPS were going to change from non-segmented to segmented. However, it was discovered that the current CAFÉ formatters for those products will not work properly in OB2. An updated CAFÉ formatter will not be available until late October. As a result, a decision was made to hold off on implementing the segmented formats for all sites until December 2003. This change means that WWA users will have to copy back their OB1 templates until the switchover date.

In Part 15, a post install step 5B1a, was changed to ensure that the OB1 version of the HWO/SPS templates were copied back into data/fxa/customFiles, after the OB2 upgrade. Most likely the WWA focal point will want to do this. In addition 5B1b was changed because a configuration modification was needed so that the SPS/HWO products created in WWA were “non-segmented.” The OB2 default was to have these products created as segmented products. (8/15/03)

3. There is a newly discovered bug found in the OB2 version of the HWR program. At 1000 AM and 1000 PM, the SWR product drops the leading 1 on the date/time group of the Mass News Disseminator (MND) header. The fix for this is expected to be bundled with maintenance release OB2.1 scheduled for deployment around September 10.

If a site that issues the SWR is concerned about this bug, a procedure will be placed in Part 15, step 5E. The procedure will temporarily point your AWIPS system back to the OB1 version. (8/05/03)

PART 0: Pre-installation Requirements (complete before day of install)

Part 0, page 6, step 6, replace bullet 3 with the following:

(8/5/03)

- Secure a good LDAD backup a week or so before the upgrade. Use System Administration Note 12 entitled “LDAD Backup and Restore Procedure.” This document is located on the following web page:

http://www.oso3.nws.noaa.gov/awips_new.htm

Part 0, page 13, step 16a, had a bug. New step 16 should be as following: (8/7/03)

16. As mentioned earlier, a main feature of the OB2 upgrade is that the site localization is done on lx1, not ds1. The localization results are then pushed everywhere else. In previous upgrades, the localization was done on ds1 then pushed to the other devices (i.e. ds2, as1, as2, ws#). This change means that localization-related files on lx1 must be in "baseline condition" or else a corrupt localization will be propagated throughout.

For example, we highly recommend that you take the following file from ds1:

- a. /awips/fxa/data/localization/LLL/LLL-hydroSiteConfig.txt
and copy it to both lx1 and lx2 to subdirectory:
/awips/fxa/data/localization/LLL/LLL-hydroSiteConfig.txt

In addition, we highly recommend that you take the following 2 files from ds1:

- b. /awips/fxa/data/localization/LLL/LLL-acqPatternAddOns.txt
- c. /awips/fxa/localization/LLL/LLL-portinfo.txt

and move them into the data/fxa/customFiles directory. This will ensure these two files are available for not only OB2 but OB3 and beyond. After placing them into customFiles be sure to remove them from localization/LLL.

PART 4: Install OB2 Software on Linux

Part 4, page 4-1, step 2. Add the following sentence to the note. (8/6/03)

You might want to ping the lx boxes to make sure they are back on the network before proceeding to step 3. Otherwise, the files from step 3 may not get copied to the appropriate locations on lx1 or lx2.

PART 15: OB2 After-Install Procedures

5. Miscellaneous Post install procedures (must do on day of upgrade)

Part 15, page 5-4, updated 5B (8/15/03), keep 5C and D, added 5E (8/6/03)

B. OB2 Watch Warning Advisory (WWA) Updates **(Operational WFOs)** (8/15/03)

1. **If you did part 0, step 10 and attachment "e"**, before the upgrade:
You obtained the OB2 WWA templates and customized them. In part 4 step 3b, you copied these into the /data/fxa/customFiles directory.

VERY IMPORTANT

WWA focal points most likely need to do the following:

Operational WFOs that use WWA should not run WWA for HWO and SPS templates/products until they do the following steps a and b below.

- a. You now need to copy your OB1 SPS and HWO templates back into /data/fxa/customFiles because a decision was made to keep the SPS and HWO templates non-segmented until December 2003. You must do this because the OB2 versions of these SPS/HWO templates will produce segmented versions of these products.

Most likely the WWA focal point will need to obtain the HWO/SPS templates that apply for your site. As a backup, all of the OB1 WWA templates should be found in data/local/ob1WWA_bu.

After copying the SPS/HWO templates back into /data/fxa/customFiles do step b.

- b. Sites that use WWA must re-configure the WWA software so that all SPS and HWO products created from the OB1 templates are non-segmented. To do this do the following:

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Go to Attachment "h" and do the procedure

- c. After doing steps a and b, as appropriate, you should run WWA

and check all WWA templates to ensure they contain all the customizations you want and work well in OB2. In addition, ensure that all SPS/HWO products when created are non-segmented.

2. **If you did not do part 0 step 10**, you will need to:
 - a. Customize the OB2 WWA templates and place the results into /data/fxa/customFiles. The exception to this is that you want to keep the OB1 version of the SPS/HWO products. The latter is needed because a decision was made to keep the SPS and HWO templates non-segmented til December 2003.
 - b. After doing step a, go to Attachment "h" and do the procedure
 - c. After doing steps a and b, you should run WWA and check all WWA templates to ensure they contain all the customizations you want and work well in OB2. In addition, ensure that all SPS/HWO products when created are non-segmented.

C. OB2 WarnGen Updates (**Operational WFOs**) (No change)

1. **If you did part 0 step11 and attachment "f"**, you should now be running OB2 software with the OB1 templates being active. This is the case even though the new OB2 WarnGen templates will reside in the data/fxa/nationalData directory.

At this time, you should run WarnGen and check all your WarnGen templates to ensure they contain all the customizations you want. Remember, at this point, you should have your OB1 templates active.

2. **If you did not do part 0, step 11 and attachment "f"**, then at this point all your customized OB1 templates in /data/fxa/customFiles and localization/LLL are still active. However, if you need to use a template that is not customized, then a new OB2 template will be used to create your message. Before December 2003, the main difference between having an "active" OB2 and OB1 template, is that the "followup messaging" will be different for each. The OB1 template will act similarly to the way it did in OB1, but the new "followup messaging" will be active for the OB2 template. Information on the "followup messaging" capability and what it means operationally is found at:

<http://www-sdd.fsl.noaa.gov/~ramer/noaa/ob2-wgn/followUp.html>

A site may want to live with having a mixture of both OB1 and OB2 templates or do the following:

- a. Get a copy of the appropriate baseline template that was active during OB1 and place it into /data/fxa/customFiles and run a localization. or
- b. Customize the OB2 templates and activate them.

D. Operational WFOs: AX and WES Issue (No change)

One of the OB2 beta sites indicated that they lost connectivity between the AX and WES after the OB2 upgrade. Check this at this time. The fix used by the beta site was to add the WES information back into the AX hosts.allow and hosts.equiv file, then do the nfs stop & start as per the original WES instructions.

Part 15, 5E.

(8/6/03)

- E. There is a newly discovered bug found in the OB2 version of the HWR program. At 1000 AM and 1000 PM, the SWR product drops the leading 1 on the date/time group of the MND. The fix for this is expected to be bundled with maintenance release OB2.1 scheduled for deployment around September 10.

If a site that issues the SWR is concerned about this bug, do the following. The procedure will temporarily point your AWIPS system back to the OB1 version.

1. On ds1, as user fxa, edit the OB2 version of awips/fxa/bin/ingest.crontab.ds1 as shown below.

```
cd /awips/fxa/bin
vi ingest.crontab.ds1
```

Look for the HWR section of the cron. Next comment out 2 lines the OB2 version of the instructions by placing a "#" at the beginning of each line. Next insert the OB1 version of the HWR the commands as shown below. After modification, the changed portion of the crontab will look as follows:

```
# HWR crons (MDL cronjobs)
#10 * * * * csh -c '/awips/adapt/hwr/bin/hwrnwr -t >&! ${LOG_DIR}/hwrnwr.log'
#10 * * * * csh -c '/awips/adapt/hwr/bin/hwrnwsws -t >&! ${LOG_DIR}/hwrnwsws.log'
10 * * * * export FXA_HOME=/awips/fxa;. /awips/fxa/readenv.sh;umask
002;$HWR_DIR/bin/hwrnwr -t > ${LOG_DIR}/hwrnwr.log 2>&1
10 * * * * export FXA_HOME=/awips/fxa;. /awips/fxa/readenv.sh;umask
000;$HWR_DIR/bin/hwrnwsws -t > ${LOG_DIR}/hwrnwsws.log 2>&1
```

2. Now restart cron by typing the following commands:

crontab ingest.crontab.ds1

3. If you want these changes to survive a ds2 failover, you will need root access to save this revised crontab in /etc/cmcluster/crons/fxa as:
ds1.dsswap
ds2.dsswap

Otherwise, you may need to repeat steps 1 and 2, if failover occurs.

Note: After you install OB2.1, you will have to undo these changes to resume using the OB2 HWR version.

Attachment “e” - Obtain OB2 WWA and WWA NWR Templates Before the OB2 Upgrade

Page e-2, bottom chart, 3rd line from bottom, correct the following typo: (8/14/03)

The template is listed as WWA_head_outlook.preWWA
It should be WWA_heat_outlook.preWWA

Page e-5, (end of step e), need to add a "/" in each of the four copy commands. The correct commands are: (8/14/03)

```
cp -p /data/fxa/customFiles/WWA*.preWWA .
cp -p /data/fxa/customFiles/nwr*.preWWA .
cp -p /data/fxa/customFiles ccc-WWA*.preWWA .
                                     Note:ccc is localization site id
cp -p /data/fxa/customFiles ccc-nwr*.preWWA .
```

At the end of Attachment "e", add new step F. (8/15/03)

F. This is a heads-up to the OB2 installer and WWA focal point.

Please note that a post install step was changed in part 15 step 5B1 and 5B2 (see addendum above). It is needed because Operational WFOs that use WWA should not run WWA for HWO and SPS templates/products until they do 15 step 5B, after the OB2 upgrade. This most likely will need to be done by the WWA focal point. You may wish to take a look at this procedure now and see what the step entails.

Attachment “h” - Re-Defining WWA Configuration to Produce Non-Segmented Products for HWO/SPS (8/15/03)

This attachment was created from information from Section 2.1 of the *WWA OB2 Users Manual* (http://www.nws.noaa.gov/mdl/wwa/new_OB2.htm). It is needed because we want to ensure that the OB1 SPS and HWO products/templates which were just copied into /data/fxa/customFiles (see Part 15 Miscellaneous Post install Procedures, 5B1a) will be used to create non-segmented products.

The procedure below needs to be done for each of the specific product names listed in step 5 below, as appropriate.

Steps 10-16 are needed to activate the SPS/HWO templates which were recently copied into the /data/fxa/customFiles.

1. Open an xterm window on either lx1.
- if done as user ifps skip to step 3
2. Login as user ifps:
`su -l ifps`
<enter ifpsusr password when prompted>
3. Launch the WWA Admin application:
`WWAAdmin.sh`
4. Select the *Hazard Menu Panel* by either selecting the *hazard* icon on the button bar or by selecting *edit*, then *Hazard Menu* on the menu bar.
5. Double click on the appropriate HWO/SPS hazard box.
These can include any of the following “Specific Product Names:”
 - A. Winter Storm Outlook (WWA_ww_outlk.wwaProd),
 - B. Excessive Heat Outlook (WWA_heat_outlook.wwaProd),
 - C. Frost/Freeze Outlook (WWA_frostfrz_outlk.wwaProd),
 - D. Hazardous Weather Outlook (WWA_hazard_outlk.wwaProd),
 - E. High Wind Outlook (WWA_hiwind_outlk.wwaProd),
 - F. No Hazardous Weather Outlook (WWA_nonhazard_outlk.wwaProd),
 - G. Special Weather Statement (WWA_specialstmt.wwaProd),
 - H. Wind Chill Outlook (WWA_wndchil_outlk.wwaProd),
 - I. Severe Weather Outlook (WWA_severe_outlook.wwaProd)
6. In the hazard configuration interface select the *Miscellaneous Format* tab and set the following fields:

Segmented Checkbox: **Unchecked for Non-segmented.**
Deselect the box next to segmented to make the product type non-segmented.

7. Save and exit the *hazard* configuration interface:

Select **Ok** button bottom left on interface

8. Repeat steps 5 through 7 for each hazard listed in 5 (A-I), as needed.

9. Exit WWA Admin application:

Select the **Exit** button from the bottom center of interface.

10. Login as user fxa:

su -l fxa
<enter password when prompted>

11. Run WWA lx1 localization by typing:

cd /awips/fxa/data/localization/scripts
./mainScript.csh -wwa

12. Remotely log into lx2 by typing:

rlogin lx2
<enter password if prompted>

13. Run WWA lx2 localization by typing:

cd /awips/fxa/data/localization/scripts
./mainScript.csh -wwa

14. Exit lx2 remote login session by typing:

exit

15. Exit by typing:

exit
exit
exit